

# REU/RET Site: Advanced Materials Processing and Analysis

Supapan Seraphin, Gary W. Chandler DMR-0243847

**Objectives:** to inspire and motivate students to pursue careers in science and engineering, to help them make informed career decisions, and to expand students' job and graduate school options upon graduation. For teachers, the opportunity to be a part of current research, to interact with scientists and engineers, and to use advanced equipment at the University helps increase their confidence, rejuvenate their excitement about science, and provides materials to transfer this excitement into their classrooms.

**Activities:** First week of introduction to laboratory methods, safety, library use, ethics, and intensive training in optical characterization and/or electron microscopy and microanalysis. Then join a research group. Teachers will develop classroom materials and devise ways to transfer their experience to the classroom



Jeffrey Weger and his 10<sup>th</sup> grade students conducting an experiment on heat of fusion with the PI observing to the right.

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## International REU/RET

**Objectives:** to provide the future generations of US scientists and engineers professional experience in an international setting early in their careers

**Activities:** Two students and two teachers work in one of the laboratories at the Thailand National Science and Technology Development Agency for four weeks. Students continue their research at the University of Arizona and share with their research groups the comparison of the two research settings as well as the foreign culture and traditions.



International REU/RET participants, their research advisors in Thailand, and the PI after progress report presentations on July 4, 2003

## International REU/RET

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Chad Folkman in the lab at Chulalongkorn University and below with Thai colleagues



Weekend excursion to the Elephant Island. The co-PI, Gary W. Chandler is on the left.